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EPAct Test Programs in ASD
3rd Bi-Weekly Report
March 13, 2008

1. Light Duty Gas Exhaust Fuels

Contractor: SwRI, EP-C-07-028, WA 0-1
WAM: Connie Hart
Alt. WAM: Rafal Sobotowski
Other team members: Carl Scarbro, Mike Christianson, Tony Fernandez, Carl Fulper, Aron Butler
Budget: \$4M, plus \$2M in collaboration with NREL

Time Line

- Testing is scheduled to begin first week in April
- Phase 1 and half of Phase 2 finished by the end of June
- Phase 3 will be finished May 2009

Program Status:

- Connie Hart and Rafal Sobotowski made site visits to SwRI in past two weeks. They are on schedule for the project.
- Fuels for Phase 1 and 2 appear on track for delivery by the start of testing
- Phase 3 fuels appear to be on schedule for June delivery.
- New work assignment to add isomers of acrolin to carbonyls calculations. Working with CARB on methodology.
- Vehicles are all in and initial FTPs almost complete. Mileage accumulation has begun on many.

2. Oil Study

Contractor: NVFEL
Project lead: Mike Christianson, Rafal Sobotowski
Budget:

Time Line

- Estimated duration of pilot: 15 weeks (May 11)

Program Status:

- Mile 500 tests complete at end of week
- Moving ahead with mileage accumulation

3. PM Speciation

Contractor: NVFEL
Project lead: Mike Christianson, Marion Hoyer
Other team members: Carl Scarbro, Rafal Sobotowski, Joe McDonald
Budget: \$265K

Time Line: Late 2008

Program Status:

- Working with LOD to find solution to their shortfall of FTE for this project.
- Costing out alternative of testing at ORD:

4. Nonroad Exhaust Program

Contractor: Carnot Intertek
WAM: Carl Scarbro
Alt. WAM: Rafal Sobotowski

Project Overview:

Timeline

- The original program was to be completed last year
- Should begin by April 1st and finish in August of this year

Program Status

- Carnot is ready to go. It looks as though they will be ready to start the test program in the beginning of April.
- 8 Engines are at Carnot now.
 - A pair of commercial grade Class IV engines (with out catalyst are to be provided by April from Echo and a pair of residential Class IV engines (with catalysts) will be obtained for testing.
 - There will be a total of 12 engines to be tested
- Correlation testing is completed at Environment Canada on certification fuel on a quality Class 2 engine. The emission test results on the seven tests have good precision. The engine is to be shipped to Carnot this week.
- Test fuel order is now on schedule due to the selection of the two of the EPO vehicle fuels instead of the original fuels selected two years ago
 - Decided to use the EPO Fuels 17 and 18 with 18 having it's RVP bumped up by 1 psi to save time on this and the EPO program (Paul M's idea and Carl's epiphany). Dropped the third fuel entirely.
- Rafal Sobotowski had a site visit with Carnot last week. He indicated that Carnot appears to have the technical expertise and facilities specified in their proposal and sees not immediate obstacles in carrying out the test program.

5. Evap Testing

Contractor: SwRI, EP-C-07-028, WA 0-4
WAM: Connie Hart
Alt. WAM: Dave Brzezinski
Other team members: Carl Scarbro, Tony Fernandez
Budget: \$600K

Time Line: Testing from June 2008 thru June 2009

Program Status:

- Connie Hart went to ATL in AZ last week to get detailed test procedure of E-77-2 in order to reproduce program at SwRI for E-77-2b, which is our EPAAct evap emissions program.
- Initial fuel estimates looks like we can get the left-over fuel from E-77-2 and E-74b programs. Minor negotiations with Chris Tennant at CRC underway.
- Working final details of SOW, should go to contracts week of 3/17/08

6. Determine Percent of High Evaporative Vehicles in Fleet

Contractor: ERG, EP-C-06-080, WA 1-2
WAM: Connie Hart
Alt. WAM: Dave Brzezinski
Other team members: Carl Scarbro, Carl Fulper, Tony Fernandez, Jim Warila
Budget: \$1M

Time Line

- ICR clock started with Federal Register notice 2/14/08
- SOW package went to Cincinnati 2/22/08
- Approval of Work Plan by March 24
- Contractor to supply supporting documents for ICR submission March 31.
- Another 30 day comment period for ICR, roughly month of May.
- Goal is to have ICR in place by mid-June for recruitment and pilot field work to begin. Will need our management support for OMB to give us priority.
- Finalize test procedure for larger program by August 22 so recruitment can begin for field work in Sept and October
- Compile data and draft report by early December of 2008

Program Status:

- ERG made contact with CODPH (State of Colorado) through Gary Bishop. They have been doing work with RSD for evaporative emissions. They are very willing to help us with their equipment and man hours to work out our methods for the field study. Looks like they can fit into our timeframe.
- Outline of Work Plan was sent by ERG for our confirmation for them to continue. On track to be approved by March 24.
- Preliminary work and pilot study would take place in Colorado near CODPH.

- Larger program still to take place in San Antonio, a non-IM area, and near to SwRI for recruiting small portion of high evap vehicles to their lab.